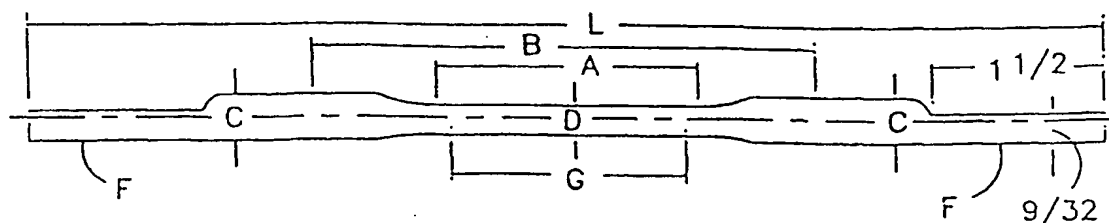




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C22C 21/00	A1	(11) International Publication Number: WO 00/17410 (43) International Publication Date: 30 March 2000 (30.03.00)
<p>(21) International Application Number: PCT/US99/21639</p> <p>(22) International Filing Date: 17 September 1999 (17.09.99)</p> <p>(30) Priority Data: 60/101,313 21 September 1998 (21.09.98) US</p> <p>(71) Applicant (for all designated States except US): GIBBS DIE CASTING ALUMINUM CORPORATION [US/US]; 369 Community Drive, Henderson, KY 42420 (US).</p> <p>(72) Inventors; and (75) Inventors/Applicants (for US only): EVANS, James, M. [US/US]; 2612 Greatway Court, Evansville, IN 47711 (US). HAGAN, Richard, J. [US/US]; 7430 Mosscreck Road, Evansville, IN 47720 (US). TURNER, Morris, Earl [US/US]; 1614 Short Street, Henderson, KY 42420 (US). GIBBS, Roland, N. [US/US]; 3644 Zion Road, Henderson, KY 42420 (US).</p> <p>(74) Agents: COFFEY, William, R. et al.; Barnes & Thornburg, 11 South Meridian Street, Indianapolis, IN 46204 (US).</p>	<p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</p>	

(54) Title: ALUMINUM DIE CAST ALLOY HAVING HIGH MANGANESE CONTENT



(57) Abstract

Modified die-castable aluminum alloys resistant to mold soldering with low iron content and a higher manganese content by weight are disclosed. In each alloy the iron content is less than 0.6 % by weight and the manganese content is about 1.0-2.0 % by weight.